Antenna Pattern Visualization



| Project Title | Antenna Pattern Visualization |
|-----------------|--|
| Project Summary | Given information on an antenna, create an XML file and Schema that can be read by a Python script of MATLAB code to render a 3D visualization of the pattern. |
| Country | United States |

Project Description

An XML file format has been created to standardize information regarding antenna patterns and other electrical and physical attributes of the antenna. I would like to a schema developed to validate an XML file to ensure it is consistent with the antenna pattern standard. Once the antenna pattern is in a standard and valid format, I would like to be able to visualize the pattern in 3D using either a Python script or MATLAB code (bonus points for both).

Required Skills or Interests

Skill(s)
Coding
Data visualization

Additional Information

An example antenna pattern xml file will be provided as a starting point. The genesis of the pattern standard can be found here: http://nsma.org/wp-content/uploads/2016/05/wg16_99_050.pdf. I have added additional information I would like capture in the new standard.

Language Requirements

None